NEW MINERALS: SPECIMENS FOR COLLECTORS AND MUSEUMS OR SUPPLIERS OF NEW FINDINGS IN CRYSTAL CHEMISTRY

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A number of new minerals which display so far unknown crystal chemical features have been described by the author and his colleagues. Minerals are presented in microphotographs and crystal structure drawings with respect to the special features in crystal chemistry. Selected minerals from the Eifel area, Germany, are almarudite, $K(\square, Na)_2(Mg, Fe, Mn)_2(Be, Al)_3[Si_{12}O_{19}]$, and rondorfite, $Ca_8Mg[SiO_4]_4Cl_2$, (MIHAJLOVIĆ *et al.*, 2004), batiferrite, $Ba[Ti_2Fe_{10}]O_{19}$, (LENGAUER *et al.*, 2001), batisite, (Ba, K)(K, Na)Na(Ti, Fe, Nb, Zr)Si_4O_{14}, (SCHMAHL & TILLMANNS, 1987), bellbergite, $(K, Ba, Sr)_2Sr_2Ca_2$ $(Ca, Na)_4Al_{18}Si_{18}O_{72} \cdot 30H_2O$, (RÜDINGER *et al.*, 1993), brenkite, $Ca_2F_2(CO_3)$, (LEUFER & TILLMANNS, 1980), hannebachite, $CaSO_3 \cdot 1/2H_2O$, (HENTSCHEL *et al.*, 1985), liebauite, $Ca_3Cu_5Si_9O_{26}$, (ZÖLLER & TILLMANNS, 1992), and the zeolite minerals tschörtnerite, $Ca_4(K, Ca, Sr, Ba)_3Cu_3(OH)_8$ $[Si_{12}Al_{12}O_{48}] \cdot 20H_2O$, (EFFENBERGER *et al.*, 1998) and willhendersonite, $KCaAl_3Si_3O_{12} \cdot 5H_2O$, (TILLMANNS *et al.*, 1984). Minerals from the Odenwald and Spessart areas, Germany, are cornubite, $Cu_5(AsO_4)_2(OH)_4$, (TILLMANNS *et al.*, 1985), hentschelite, $CuFe_2(PO_4)_2(OH)_2$ and reichenbachite, $Cu_5(PO_4)_2(OH)_4$, (SIEBER *et al.*, 1987), and sailaufite, $(Ca, Na, \square)_2Mn_3O_2(AsO_4)_2$ $(CO_3) \cdot 3H_2O$, (WILDNER *et al.*, 2003), while tillmannsite, $(Ag_3Hg)(As,V)O_4$ has first been described from the copper mines of Roua, Departement Alpes-Maritimes (France) (SARP *et al.*, 2003).

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